

2605

Diag. Ch. No. 369-4

851
SHA
2605
1902

Treasury Department,
U. S. COAST AND GEODETIC SURVEY.

Q. N. Pittmann
Superintendent.

State: *New York*

DESCRIPTIVE REPORT.

Hydrographic Sheet No. *2605*
Type *2601*

LOCALITY:

Rockaway Inlet

1902

CHIEF OF PARTY:

H. W. Rhodes

U. S. C. & G. SURVEY,
LIBRARY AND ARCHIVES.

NOV 1 1902

Acc. No. *2605*

2605

1.
Description Report of Rockaway Inlet, L. I.

The survey of Rockaway Inlet executed between Aug. 20th and Nov. 8, 1902, included a small triangulation scheme connecting with the triangulation executed by Asst. Dickens in 1885, and consisting of three stations occupied and 8 points determined for the control of the topography and hydrography.

The Topography consisted of a re-survey of the shore line beginning at the permanent bulkhead in front of the Oriental Hotel and extending Eastward to Barren Id. including also Sheephead Bay as far Westward as Ocean Ave.. The new entrance to Sheephead Bay as shown was made about three years ago by the sea breaking through what is known as Manhattan Beach. The old entrance to Sheephead Bay is now a small detached Bay terminating at the Wily end of Plumb Beach. Outside of this new entrance, there is little change in the shore line along this side of Rockaway Inlet.

Treasury Department,
OFFICE OF THE COAST AND GEODETIC SURVEY,

Washington, D. C., 1

SUBJECT:

Rockaway Point on the south side of the Inlet was found to have extended to the Westward about $\frac{3}{4}$ of a mile, with changes in both the inside and outside shore lines.

The resurvey of the point was carried to the Eastward for about $\frac{3}{8}$ miles, at which point there were no essential changes.

The hydrography which was executed with the mophtha launches Enterprise and Irene hired at different times at Sheephead Bay, consists of about seven square miles of soundings, embracing the Inlet up to the Ely end of Barren Id., and extending west and south from Rockaway Point to include the shoals. The shoals have extended slightly south and west and the channel for entering has moved considerably to the westward.

The entering channel buoys and the spar buoys inside, marking the shoals were all located but the former are changed each year to conform to the frequent changes in the channel.

There is a second or inside channel which is entered on an approximately East

Treasury Department,
OFFICE OF THE COAST AND GEODETIC SURVEY,

Washington, D. C., 1

SUBJECT:

Course about $\frac{1}{3}$ mile off Manhattan Beach.

This leads through a narrow channel marked by red and black spar buoys - and is much used by tugs towing garbage barges to Barren Id. but the depths cannot be given until the hydrography is more fully plotted.

Specific directions for entering the Inlet cannot be given until the hydrography is fully plotted. The Oriental Hotel is the most conspicuous object on Manhattan Beach, and the Rockaway Pt. Hotel about $\frac{1}{4}$ mile East of the Wily end, the most conspicuous object on Rockaway Point.

After crossing the outer shoals and from the Wily end of Rockaway Pt. up the Inlet to abreast Barren Id., there is from 5 to 10 fathoms and the current at both flood and ebb tide is strong.

Owing to the continued bad weather the work was closed without completing all that was contemplated; current observations in the channel off the end of the Point gave a current of 2.2 knots at mid Ebb tide, but it is probable that a maximum

Treasury Department,
OFFICE OF THE COAST AND GEODETIC SURVEY,

Washington, D. C.,....., 1

SUBJECT:

Current of between 3 and 4 knots may be encountered -

The weather after the middle of September was very unsettled and from Nov. 1st to Nov. 8th, when the work was closed, a heavy S. E. Sea prevented any work -

At the request of Mr. H. C. Wilson Asst. Engineer U. S. A., the Hydrography was extended to include Sheepshead Bay, and it is probable a request will be made for that information.

Sheepshead Bay was made the headquarters for all the work and considerable difficulty was experienced in securing reliable men.

Respectfully submitted.

H. W. Rhodes. Asst. C. & G. S.

Chief of Party.

Treasury Department,
OFFICE OF THE COAST AND GEODETIC SURVEY,

Washington, D. C., 1

SUBJECT:

COPY

(2605)

VERIFICATION OF HYDROGRAPHIC SHEET #2605

The sheet and accompanying records were incomplete when received from the field.

The sheet lacked shoreline, names of signals, numbers of sounding positions, and a considerable portion of the boat work was not plotted, (Protracted). In the sounding record the reducers had not been taken out or entered and soundings were not corrected for tide and lead line error. At the beginning of work the line was about 5 per cent short. No attempt appears to have been made to adjust the line; and the error varying in magnitude, continues throughout the work.

Seventeen days were required to prepare the sheet and records for plotting soundings, nearly five weeks were spent in completing the sheet, when two weeks would be a liberal estimate for plotting and inking the 9,000 soundings and finishing the sheet.

Beginning and ending of lines should be more fully described and when such description is taken from boat sheets, it should be so stated. Character of bottoms should be given more frequently. The notes of variation in speed and direction, and objects passed and elapsed time are useful in verifying the protracted positions. Advantage does not seem to have been taken of this ready means of checking the smooth plotting.

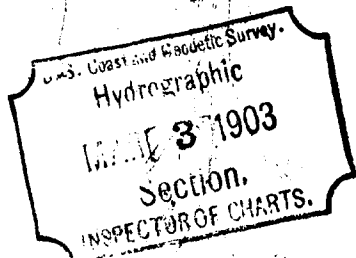
Quite a number of soundings inside the 18 foot curve, showing 1 fathom less depth than adjacent soundings were not verified, though their importance fully warranted it.

Critical points in buoyed channels are not satisfactorily developed.

The lines were run with evident care, but the system is not good.

J.T.W.

Jan. 30, 1903.



Copy, original sent to be attached to sheet

COPY
RDC.

Treasury Department,
Office of the Coast and Geodetic Survey,
Washington, D. C.,

January 30, 1903.

MEM FOR ASSISTANT IN CHARGE.

Hyd'c Sheet, 2605, Rockaway Inlet, N.Y.

I append the mem. of Mr. Watkins, who has verified the sheet. The substance of his mem. should, I think be communicated to the chief of party for his information. Lines should always be run in the direction of important channels, so that there may be no doubt as to the controlling depth; for instance there is a 7 foot spot in the main channel at entrance, which will need verification. I notice green sand as bottom is often indicated, a most unusual feature.

I would request that the above mem. of Mr. Watkins or a copy thereof be sent me eventually for my file

(Signed) G. Bradford,

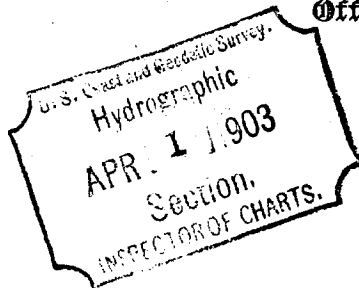
Assistant and Inspector of
Charts.

Treasury Department,

Office of the Coast and Geodetic Survey,

Washington, D. C.,

January 30, 1903.



C O P Y .

Memorandum for Assistant in Charge.

Hydrographic Sheet No. 2605, "Rockaway Inlet, New York".

I append the memorandum of the draftsman who has verified the sheet. The substance of his memorandum should, I think, be communicated to the Chief of Party for his information. Lines should always be run in the direction of the important channels so that there may be no doubt as to the controlling depth, for instance, there is a 7 ft. spot in the main channel at entrance which will need verification. I notice green sand as bottom is often indicated; a most unusual feature.

I would request that the above memorandum, or a copy thereof, be sent me, eventually, for my file.

(Signed) G. Bradford,

Assistant & Inspector of Charts.

C O P Y .

Verification of Hydrographic Sheet No. 2605,

"Rockaway Inlet, New York".

The sheet and accompanying records were incomplete when received from the field.

The sheet lacked shoreline, names of signals, the numbers of sounding positions, and a considerable portion of the boat work was not plotted (protracted). In the sounding record, the reducers had not been taken out or entered and soundings were not corrected for tide and lead line error. At beginning of work the line was about 5% short. No attempt appears to have been made to adjust the line; and the error, varying in magnitude, continues throughout the work.

Seventeen days were required to prepare the sheet and records for plotting soundings. Nearly five weeks were spent in completing the sheet, when two weeks would be a liberal estimate for plotting and inking the 9000 soundings and finishing the sheet.

Beginning and ending of lines should be more fully described, and when such description is taken from boat sheets it should be so stated. Character of bottoms should be given more frequently. The notes of variation in speed and direction, and objects passed and elapsed time are useful in verifying the protracted positions. Advantage does not seem to have been taken of this ready means of checking the smooth plotting.

Quite a number of soundings inside the 18 ft. curve show-
ing 1 fm. less depth than adjacent soundings were not verified,
though their importance fully warranted it.

Critical points in buoyed channels are not satisfactorily
developed.

The lines were run with evident care; but the system is
not good.

Bottom abbreviations do not conform to regulations.

L day record irregular in books.

Mr. Bradford

Treasury Department,
Office of the Coast and Geodetic Survey,
Washington, D. C.,

April 1, 1908.

To the SUPERINTENDENT,

U. S. Coast and Geodetic Survey.

S i r :

Your attention is respectfully invited to the comments of the draftsman and Inspector of Charts on Hydrographic Sheet No. 8605, "Rockaway Inlet, N. Y.", surveyed in 1902 by Assistant H. W. Rhodes.

The incomplete condition of the records when received at the Office, requiring so much extra labor by the draftsman, is probably due to the inefficient organization of the party, (Mr. Rhodes had with him only Mr. Chas. A. Thompson, W. O.) and the fact that Mr. Rhodes was hurried to the command of the HYDROGRAPHER without an opportunity to complete his office work. I believe the party organization and equipment was also largely responsible for the faults in the field work. Later work by Mr. Rhodes at Chinooteague Inlet with a well equipped party has been found very satisfactory.

Respectfully yours,

Inspector of Hydrography and Topography.

Wm Bradford



ALL COMMUNICATIONS SHOULD BE FORWARDED
UNDER COVER TO THE SUPERINTENDENT U. S.
COAST AND GEODETIC SURVEY, WASHINGTON, D. C."

TREASURY DEPARTMENT,
OFFICE OF THE COAST AND GEODETIC SURVEY,

Washington,

April 1, 1903.

To the SUPERINTENDENT,

U. S. Coast and Geodetic Survey.

S i r :

Your attention is respectfully invited to the comments of the draftsman and Inspector of Charts on Hydrographic Sheet No. 2805, "Rockaway Inlet, N. Y.", surveyed in 1902 by Assistant H. W. Rhodes.

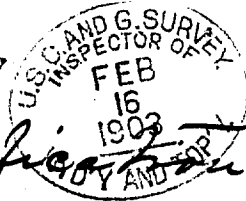
The incomplete condition of the records when received at the Office, requiring so much extra labor by the draftsman, is probably due to the inefficient organization of the party, (Mr. Rhodes had with him only Mr. Chas. A. Thompson, W. O.) and the fact that Mr. Rhodes was hurried to the command of the HYDROGRAPHER without an opportunity to complete his office work. I believe the party organization and equipment was also largely responsible for the faults in the field work. Later work by Mr. Rhodes at Chincoteague Inlet with a well equipped party has been found very satisfactory.

Respectfully yours,

Herbert G. Ogden

Inspector of Hydrography and Topography.

The soundings are expressed in feet to 18 feet,
beyond in fathoms, and are on the plane of mean lower
low water.



Hyd. Section
Jan. 30, 1903.

Verification of Hyd. 2605
Mr. Ogden
L.B.

The sheet and accompanying records were in complete when received from the field -

The sheet lacked shore line, names of signals, the numbers of sounding position, and a considerable portion of the boat work was not plotted (protracted) - In the sounding record, the reducers had not been taken over or secured and soundings were not corrected for tide and lead line error - At beginning of work the line was about 5% short - no attempt appears to have been made to adjust the line; and the error, varying in magnitude, continues throughout the work -

Seventeen days were required to prepare the sheet and records for plotting soundings. Nearly five weeks were spent in completing the sheet; when two weeks would be a liberal estimate for plotting and inking the 9000

soundings and finishing the sheet -

Beginning and ending of lines should be more fully described, and when such description is taken from boat-sheet, it should be so stated - Character of bottoms should be given more frequently - The notes of variation in speed and direction, and objects passed and elapsed time are useful in verifying the protracted positions - Advantage does not seem to have been taken of this ready means of checking the smooth plotting.

Quite a number of soundings inside the 18th curve showing from less depth than adjacent soundings were not verified, though their importance fully warranted it -

Critical points in buoyed channels are not satisfactorily developed -

The lines were run with evident care; but the system is not good -

Jan 30 1903

J. I. W.

Bottom abbreviations do not conform to regulations -

1 day record irregular in book



All communications should be forwarded
under cover to the "Superintendent U. S.
Coast and Geodetic Survey, Washington, D. C."

TREASURY DEPARTMENT
OFFICE OF THE COAST AND GEODETIC SURVEY

Washington, Jan. 30, 1903.

Mem. for Assistant in Charge
Hyd. Sheet No. 2605, Rockaway Inlet, N. Y.

I append the mem. of Mr. ^{drogsham}Watkins, who has
verified the sheet. The substance of his mem.
should, I think, be communicated to the Chief of
party for his information. Lines should always be
run in the direction of the important channels so that
there may be no doubt as to the controlling depth,
for instance, there is a 7-foot spot in the main
channel at entrance which will need verification.
I notice green sand as bottom is often indicated; a most
unusual feature.

I would request that the above mem. of Mr. Watkins,
or a copy thereof, be sent me, eventually, for my file.

G. Bradford
Asst. & Chief Insp. of Charts

Treasury Department,

OFFICE OF THE COAST AND GEODETIC SURVEY,

Washington, D. C.,....., 190.....

SUBJECT:

No. of Inclosures,